IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) The device as in claim 13 wherein the prioritization unit is further adapted to assign a plurality to each uplink ~~prioritize~~ transmission request ~~signals~~ signal received from the terminal units based on achievable data rates.

2. (Previously Presented) The device as in claim 1 wherein the prioritization unit is further adapted to assign a highest priority to a transmission request signal associated with a highest achievable data rate.

3. (Previously Presented) The device as in claim 2 wherein the authorization unit is further adapted to authorize a terminal unit associated with the highest achievable data rate to send a transmission.

4. (Currently Amended) The device as in claim 1 wherein the authorization unit is further adapted to authorize a terminal unit ~~associated with a prioritized transmission request signal~~ to send a transmission based on its assigned priority.

5. (Cancelled)

6. (Cancelled)

7. (Previously Presented) The device as in claim 1, wherein the prioritization unit is further adapted to periodically poll a data rate associated with a terminal unit within the network.

8. (Currently Amended) The device as in claim 7 wherein the prioritization unit is further adapted to adjust [[a]] an assigned priority associated with the terminal unit based on the polled data rate.

9. – 12. (Cancelled)

13. (Currently Amended) A device for scheduling transmissions in an interference-limited network comprising:

a prioritization unit adapted to ~~send a~~ assign a priority to each downlink transmission test signal sent to a terminal unit ~~units, and prioritize each transmission test signal~~ based on an achievable data ~~rates,~~ rate associated with each ~~terminal associated with an achievable data rate~~ test signal; and

an authorization unit adapted to ~~authorize~~ schedule transmissions to the terminal units based on the priority of the test signals.

14. (Previously Presented) The device as in claim 13, wherein the prioritization unit is further adapted to assign a highest priority to a transmission test signal associated with a highest achievable data rate.

15. (Previously Presented) The device as in claim 14 wherein the authorization unit is further adapted to authorize a transmission to a terminal unit associated with the highest achievable data rate.

16. (Cancelled)

17. (Original) The device as in claim 13 wherein the device comprises a bandwidth allocation unit.

18. (Previously Presented) The device as in claim 13 wherein the device further comprises a multiplexer.

19. (Currently Amended) The method as in claim 29 further comprising:

~~prioritizing~~ assigning a priority to each uplink transmission request ~~signals~~ signal from the terminal units based on achievable data rates.

20. (Original) The method as in claim 19 further comprising assigning a highest priority to a transmission request signal associated with a highest achievable data rate.

21. (Previously Presented) The method as in claim 20 further comprising authorizing a terminal unit associated with the highest achievable data rate to send a transmission.

22. (Currently Amended) The method as in claim 19 further comprising authorizing a terminal unit ~~associated with a prioritized transmission request signal~~ to send a transmission based on its assigned priority.

23. (Previously Presented) The method as in claim 19 further comprising periodically polling a data rate associated with a terminal unit within the network.

24. (Currently Amended) The method as in claim 23 further comprising adjusting [[a]] an assigned priority associated with the terminal unit based on the polled data rate.

25. – 28. (Cancelled)

29. (Currently Amended) A method for scheduling transmissions in an interference-limited network comprising:

sending a downlink transmission test signal to terminal units;

~~prioritizing~~ assigning a priority to each transmission test signal based on an achievable data ~~rates, each terminal unit~~ rate associated with ~~an achievable data rate~~ each test signal; and

~~authorizing~~ scheduling transmissions to terminal units based on the priority of the transmission test signals.

30. (Original) The method as in claim 29 further comprising assigning a highest priority to a transmission test signal associated with a highest achievable data rate.

31. (Previously Presented) The method as in claim 30 further comprising authorizing a transmission to a terminal unit associated with the highest achievable data rate.

32. (Cancelled)